11.1 Solving Quadratic Equations by Square Root Method DAY ONE CYU

☐ Use when you get it right all by yourself

S Use when you did it all by yourself, but made a silly mistake

#Use when you could do it alone with a little help from teacher or peer

G Use when you completed the problem in a group

X Use when a question was attempted but wrong (get help)

NUse when a question was not even attempted

CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Solving quadratics using the square root method	1 - 6	7 - 14	15 - 21

Using the square root property to solve each equation. These equations have real & nonreal number solutions.

1.
$$x^2 = 16$$

$$2. x^2 = 49$$

$$3. x^2 - 7 = 0$$

$$4. x^2 - 11 = 0$$

$$5. x^2 = 18$$

$$X = \pm 3\sqrt{2}$$

$$6. y^2 = 20$$

$$7.\ 3z^2 - 30 = 0$$

$$8.2x^2 - 4 = 0$$

9.
$$(x + 5)^2 = 9$$

10.
$$(y-3)^2=9$$

11.
$$(z-6)^2 = 18$$

12.
$$(y + 4)^2 = 27$$

$$y = -4 \pm 3\sqrt{3}$$

13.
$$(2x-3)^2 = 8$$

$$\chi = \frac{3 \pm 2\sqrt{2}}{2}$$

14.
$$(4x + 9)^2 = 6$$

$$X = \frac{-9 \pm \sqrt{6}}{4}$$

15.
$$x^2 + 9 = 0$$

$$\chi = \pm 3i$$

16.
$$x^2 + 4 = 0$$

17.
$$x^2 - 6 = 0$$

$$X = \pm \sqrt{2}$$

18.
$$y^2 - 10 = 0$$

19.
$$2z^2 + 16 = 0$$

$$20.3p^2 + 36 = 0$$

$$21. (3x-1)^2 = -16$$

CYU Reflection: How far can you go: basic, intermediate, or advanced?

Rate your mastery level!

How confident are you with the skills this CYU covered? Circle the score you would give yourself.

